

Amendments to the Claims: This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

Claims 1-51 (Cancelled)

52. (Currently Amended) An implantable medical device for treating a section of a patient's vessel having a vessel branch, a relatively healthy first vessel portion on a first side of the vessel branch, and a diseased vessel portion on a second side of the vessel branch, including:

a fixation section having a first porosity;

a diseased section having a second porosity and a diseased section length; and

a branch section comprising a supportive structure having a third porosity which is greater than the second porosity and a branch section length which is less than said diseased section length.

53. (Previously Presented) The implantable medical device of claim 52 wherein the branch section includes a plurality of filaments extending between the fixation section and the diseased section.

54. (Previously Presented) The implantable medical device of claim 53 wherein the filaments of the branch section are helically wound in a braided configuration to form a tubular, radially compressible and self-expandable structure.

55. (Previously Presented) The implantable medical device of claim 53 wherein a free state diameter of the fixation section is equal to a free state diameter of the branch section.

56. (Previously Presented) The implantable medical device of claim 53 wherein a radial pressure of the fixation section is greater than a radial pressure of the branch section.

57. (Previously Presented) The implantable medical device of claim 52 wherein the radial pressure of the fixation section is greater than a radial pressure of the diseased section.

58. (Previously Presented) The implantable medical device of claim 52 wherein the third porosity is greater than the first porosity.

59. (Currently Amended) An implantable medical device for treating a section of a patient's vessel having a vessel branch, a relatively healthy first vessel portion on a first side of the vessel branch, and a diseased vessel portion on a second side of the vessel branch, including:

a fixation section comprising a plurality of filaments which are helically wound in a braided configuration to form a tubular, radially compressible and self-expandable structure having a first porosity,

a diseased section comprising a plurality of filaments which are helically wound in a braided configuration to form a tubular, radially compressible and self-expandable structure having a second porosity, said diseased section having a diseased section length and

a branch section comprising a supportive, radially compressible and expandable structure having a third porosity which is greater than the second porosity, and a branch section length which is less than said diseased section length.

60. (Previously Presented) The implantable medical device of claim 59 wherein the branch section includes a plurality of filaments extending between the fixation section and the diseased section.

61. (Previously Presented) The implantable medical device of claim 60 wherein the filaments of the branch section are helically wound in a braided configuration to form a tubular, radially compressible and self-expandable structure.

62. (Previously Presented) The implantable medical device of claim 60 wherein a free state diameter of the fixation section is equal to a free state diameter of the branch section.

63. (Previously Presented) The implantable medical device of claim 60 wherein a radial pressure of the fixation section is greater than a radial pressure of the branch section.

64. (Previously Presented) The implantable medical device of claim 59 wherein the radial pressure of the fixation section is greater than a radial pressure of the diseased section.

65. (Previously Presented) The implantable medical device of claim 59 wherein the third porosity is greater than the first porosity.

66. (New) An implantable medical device for treating a section of a patient's vessel having a vessel branch, a relatively healthy first vessel portion on a first side of the vessel branch, and a diseased vessel portion on a second side of the vessel branch, including:

a fixation section having a first porosity;

a diseased section having a second porosity; and

a branch section comprising a supportive structure having a third porosity which is greater than the second porosity;

wherein a radial pressure of the fixation section is greater than a radial pressure of the diseased section.

67. (New) An implantable medical device for treating a section of a patient's vessel having a vessel branch, a relatively healthy first vessel portion on a first side of the vessel branch, and a diseased vessel portion on a second side of the vessel branch, including:

a fixation section comprising a plurality of filaments which are helically wound in a braided configuration to form a tubular, radially compressible and self-expandable structure having a first porosity,

a diseased section comprising a plurality of filaments which are helically wound in a braided configuration to form a tubular, radially compressible and self-expandable structure having a second porosity, and

a branch section comprising a supportive, radially compressible and expandable structure having a third porosity which is greater than the second porosity;

wherein a radial pressure of the fixation section is greater than a radial pressure of the diseased section.